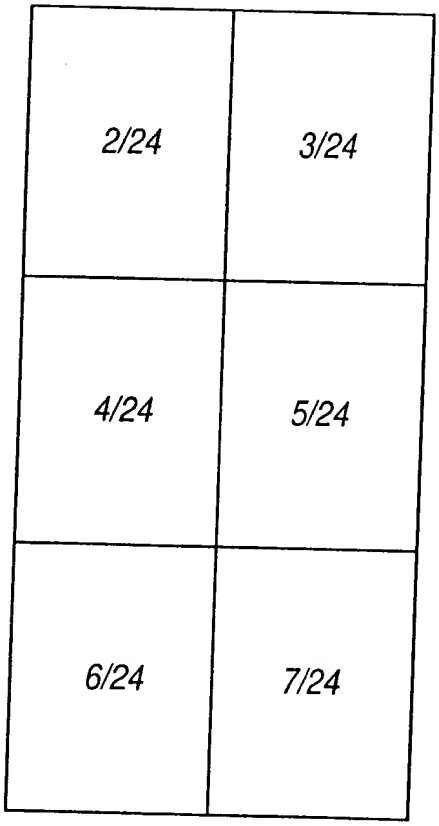

Fig. 1

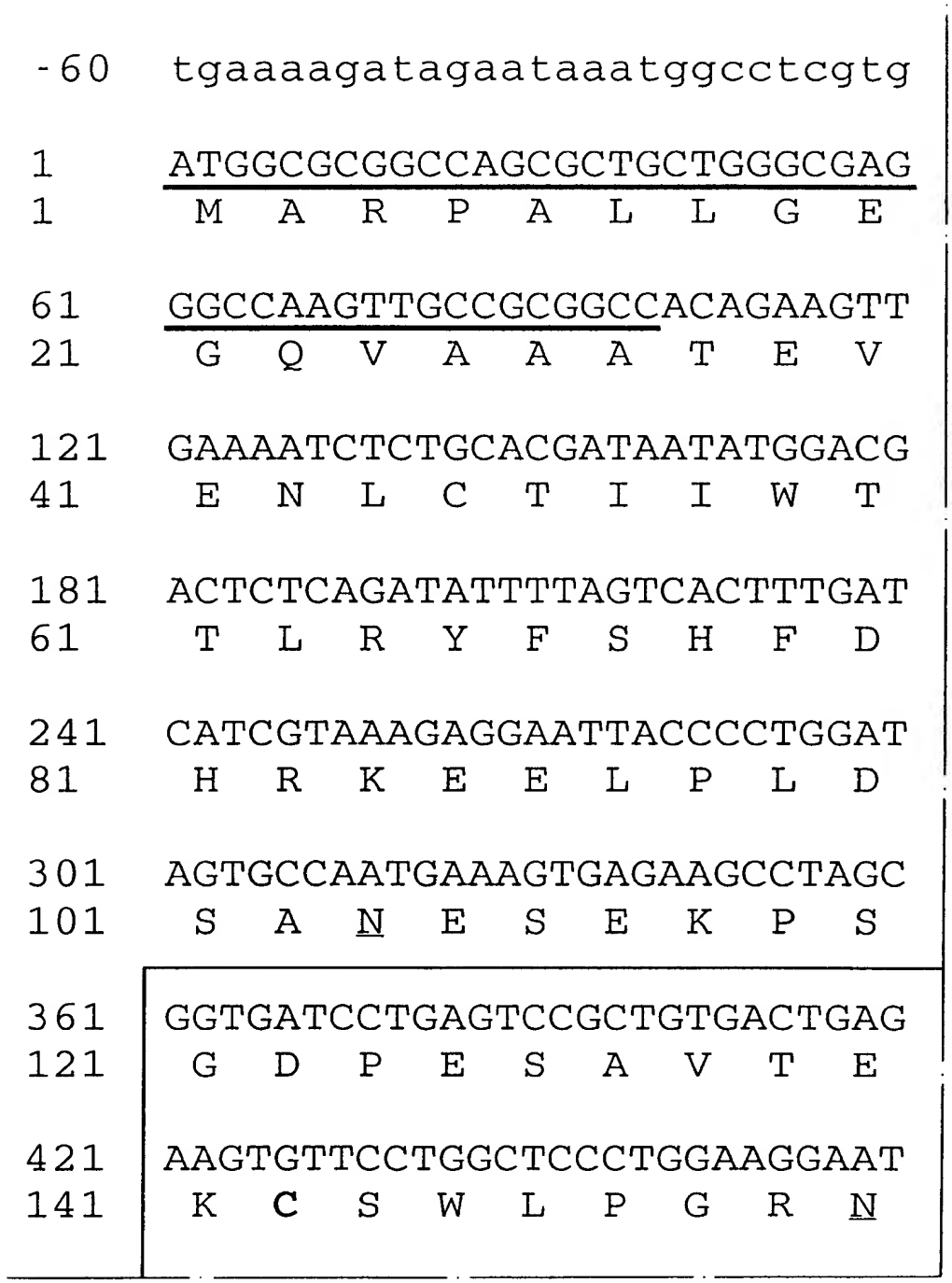

Fig. 1A

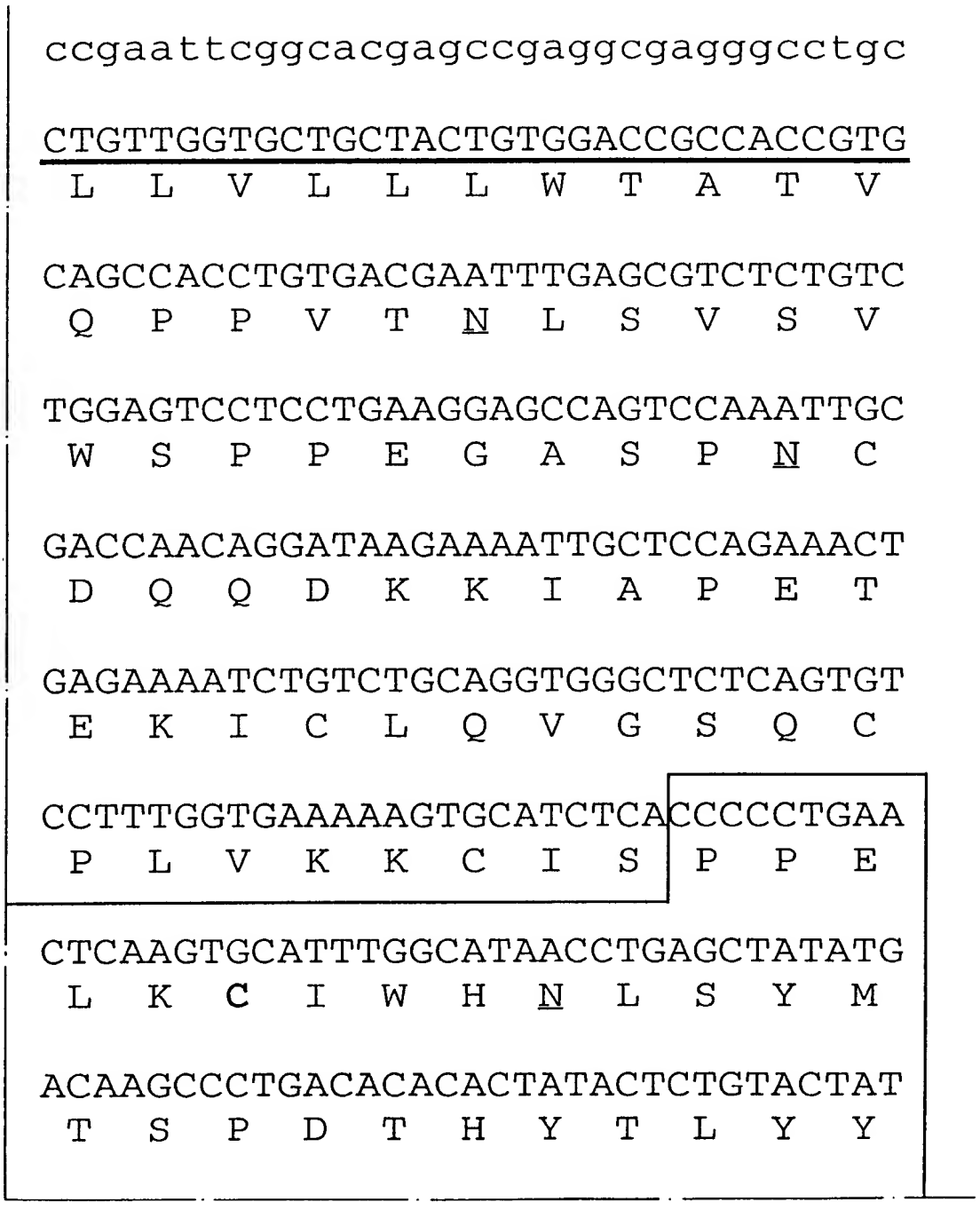

Fig. 1B

481	TGGTACAGCAGCCTGGACAAAAGTCGT
161	W Y S S L E K S R
541	ATTGCTTGTTCCTTTAAATTGACTAAA
181	I A **C** S F K L T K
601	ATAATGGTCAAGGATAATGCTGGGAAA
201	I M V K D N A G K
661	TCCTATGTGAAACCTGATCCTCCACAT
221	S Y V K P D P P H
721	TTAGTGCAGTGGAAGAATCCACAAAAT
241	L V Q W K N P Q N
781	GTCAATAATACTCAAACCGACCGACAT
261	V N N T Q T D R H
841	AATTCCGAATCTGATAGAAACATGGAG
281	N S E S D R N M E
901	GCCGACGCTGTCTACACAGTCAGAGTA
301	A D A V Y T V R V
961	AACAAACTGTGGAGTGATTGGAGTGAA
321	N K L **W S D W S** E

Fig. IC

```
CAATGTGAAAACATCTATAGAGAAGGTCAACAC
 Q  C  E  N  I  Y  R  E  G  Q  H

GTGGAACCTAGTTTTGAACATCAGAACGTTCAA
 V  E  P  S  F  E  H  Q  N  V  Q

ATTAGGCCATCCTGCAAAATAGTGTCTTTAACT
 I  R  P  S  C  K  I  V  S  L  T

ATTAAACATCTTCTCCTCAAAAATGGTGCCTTA
 I  K  H  L  L  L  K  N  G  A  L

TTTAGAAGCAGATGCTTAACTTATGAAGTGGAG
 F  R  S  R  C  L  T  Y  E  V  E

AATATTTTAGAGGTTGAAGAGGACAAATGCCAG
 N  I  L  E  V  E  E  D  K  C  Q

GGTACAAGTTGTTTCCAACTCCCTGGTGTTCTT
 G  T  S  C  F  Q  L  P  G  V  L

AGAGTCAAAACAAACAAGTTATGCTTTGATGAC
 R  V  K  T  N  K  L  C  F  D  D

GCACAGAGTATAGGTAAGGAGCAAAACTCCACC
 A  Q  S  I  G  K  E  Q  N  S  T
```

Fig. ID

```
1021   TTCTACACCACCATGTTACTCACCATT
341     F   Y   T   T   M   L   L   T   I

1081   CTTTTTTACCTGAAAAGGCTTAAGATC
361     L   F   Y   L   K   R   L   K   I

1141   ATTTTTAAAGAAATGTTTGGAGACCAG
381     I   F   K   E   M   F   G   D   Q

1201   ATCTATGAGAAACAATCCAAAGAAGAA
401     I   Y   E   K   Q   S   K   E   E

1261   AAAGCAGCTCCTTGAtggggagaagtg
421     K A A P *

1321   gatttattgcattctccatttgttatc
1381   cttgaaaaacaggcagctcctaagagc
1441   ccaaacccaaaggagctccttccaaga
1501   ccctaaaagcagatgttttgccaaatc
1561   accatcaattcatctaatcaggaattg
```

Fig. IE

```
CCAGTCTTTGTCGCAGTGGCAGTCATAATCCTC
 P   V   F   V   A   V   A   V   I   I   L

ATTATATTTCCTCCAATTCCTGATCCTGGCAAG
 I   I   F   P   P   I   P   D   P   G   K

AATGATGATACCCTGCACTGGAAGAAGTATGAC
 N   D   D   T   L   H   W   K   K   Y   D

ACGGATTCTGTAGTGCTGATAGAAAACCTGAAG
 T   D   S   V   V   L   I   E   N   L   K

atttctttcttgccttcaatgtgaccctgtgaa


tggggacttgttaaatagaaactgaaactact
cacaggtcttgatgtgacttttgcattgaaaac
aaagcaagagttcttctcgttccttgttccaat
cccaaactagaggacaaagacaaggggacaatg
tgatggcttcctaaggaatctctgcttgctctg
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Fig. IF

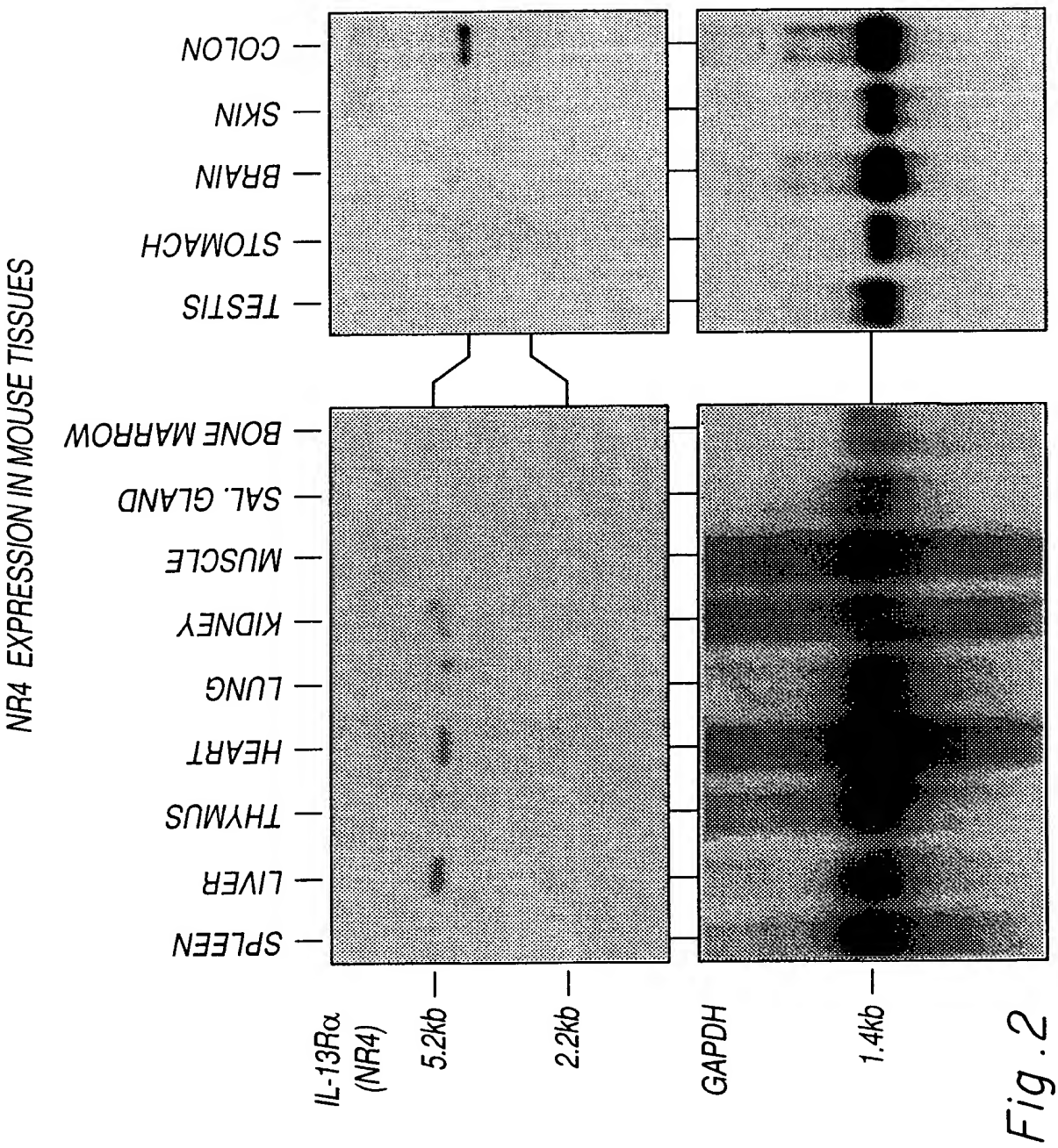

Fig. 2

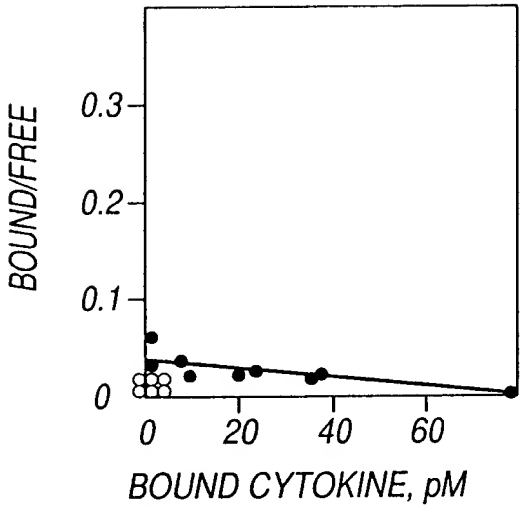

Fig. 3A

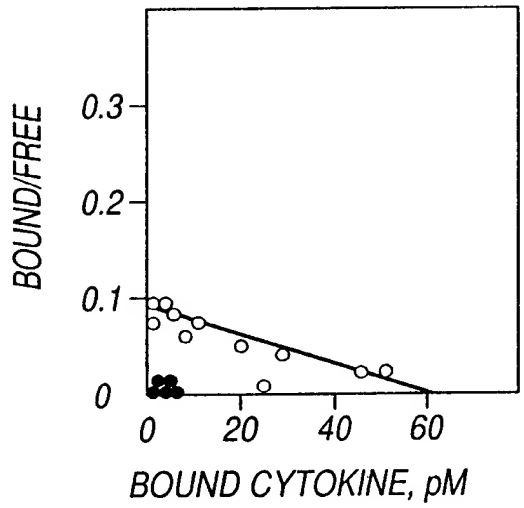

Fig. 3B

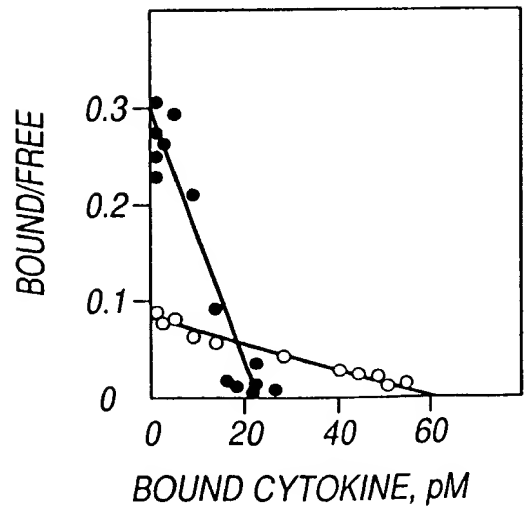

Fig. 3C

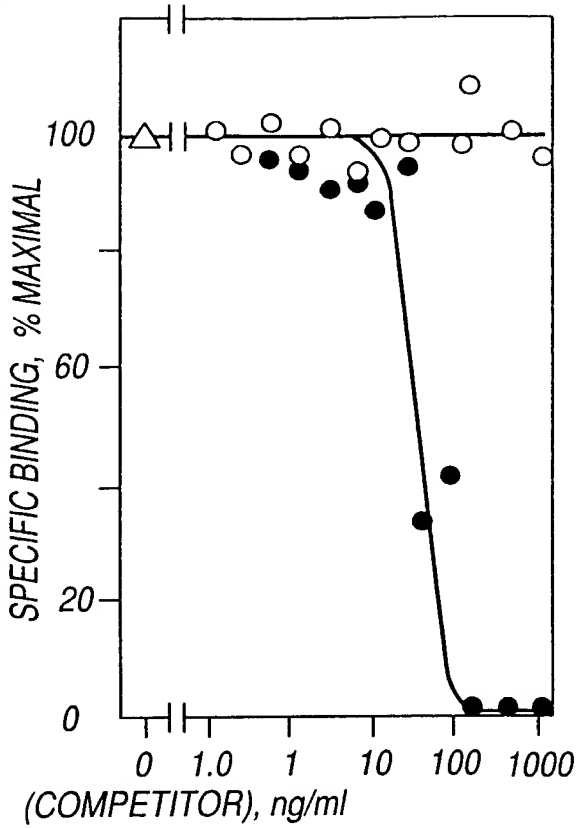

Fig.4A

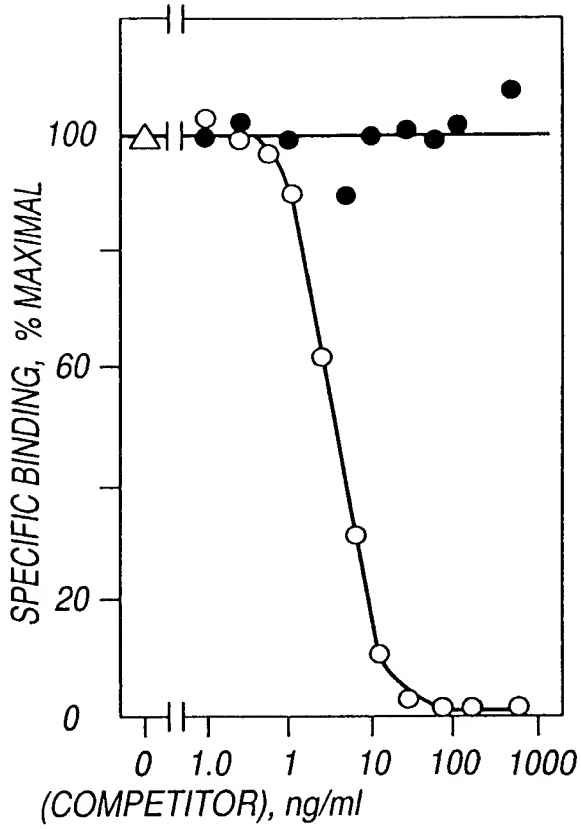

Fig.4B

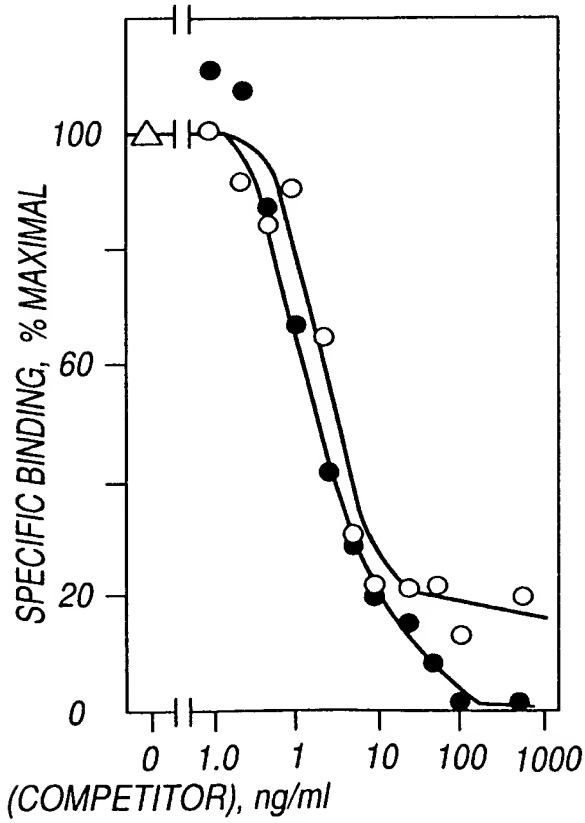

Fig.4C

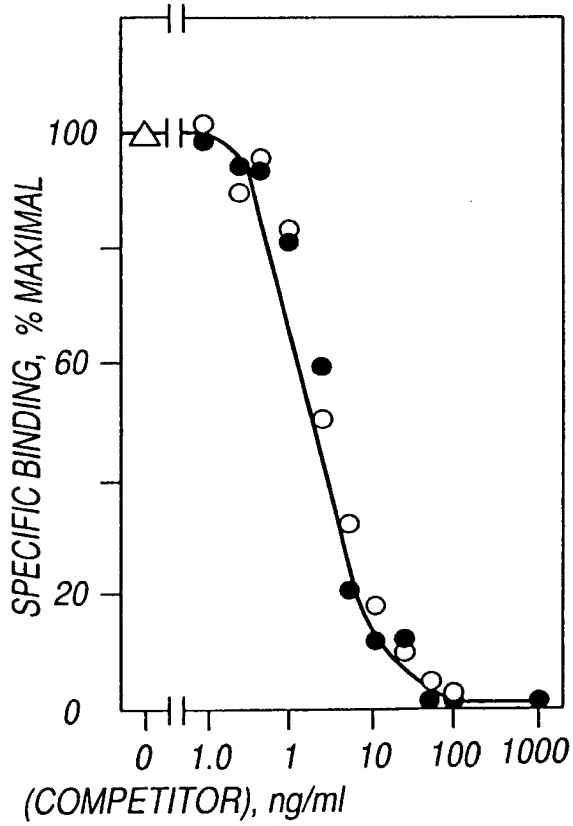

Fig.4D

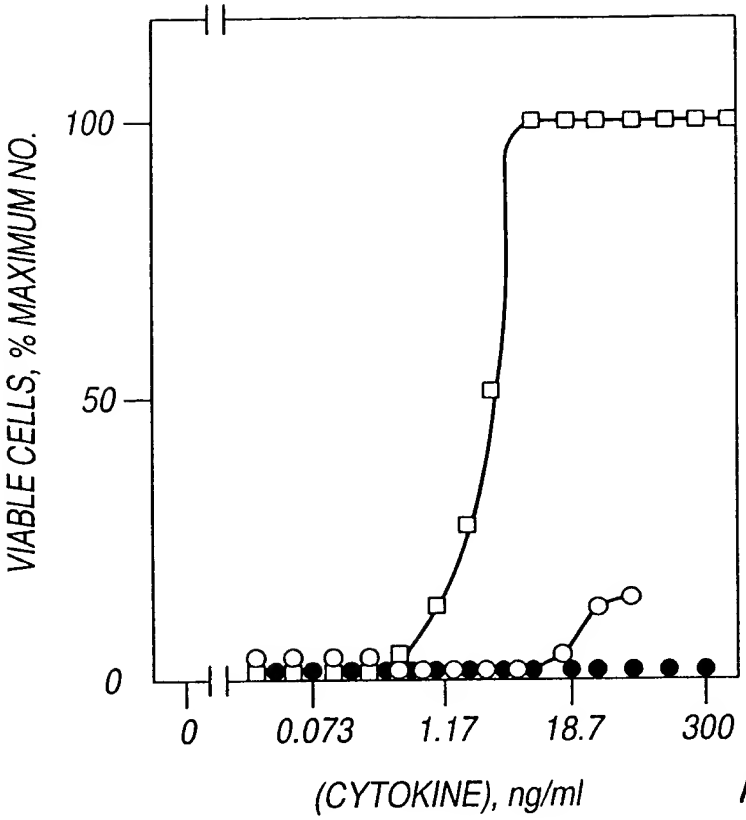

Fig. 5A

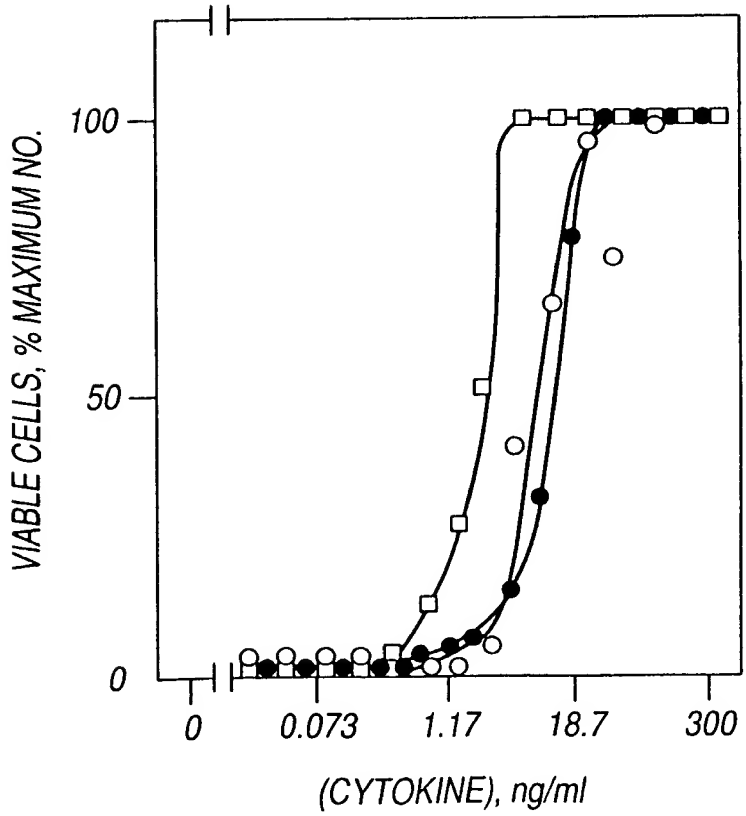

Fig. 5B

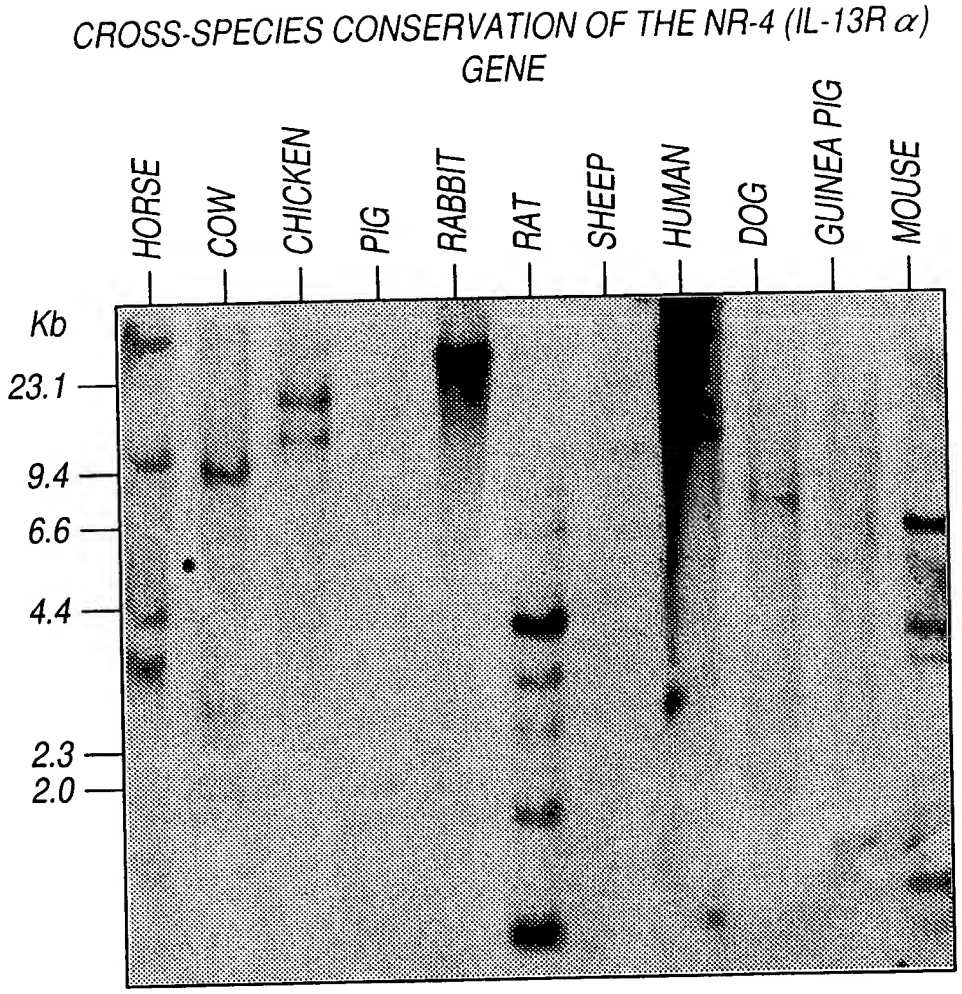

Fig. 6

(major)

DYKDD DDYKD DDESR TEVQP PVTXL SV
1 5 10 15 20 25

(minor)

ASISS SDYKD DDESR TEVQP PVTXL SV
1 5 10 15 20 25

Fig. 10

14/24	15/24
16/24	17/24
18/24	19/24
20/24	21/24
22/24	23/24

Fig. 7

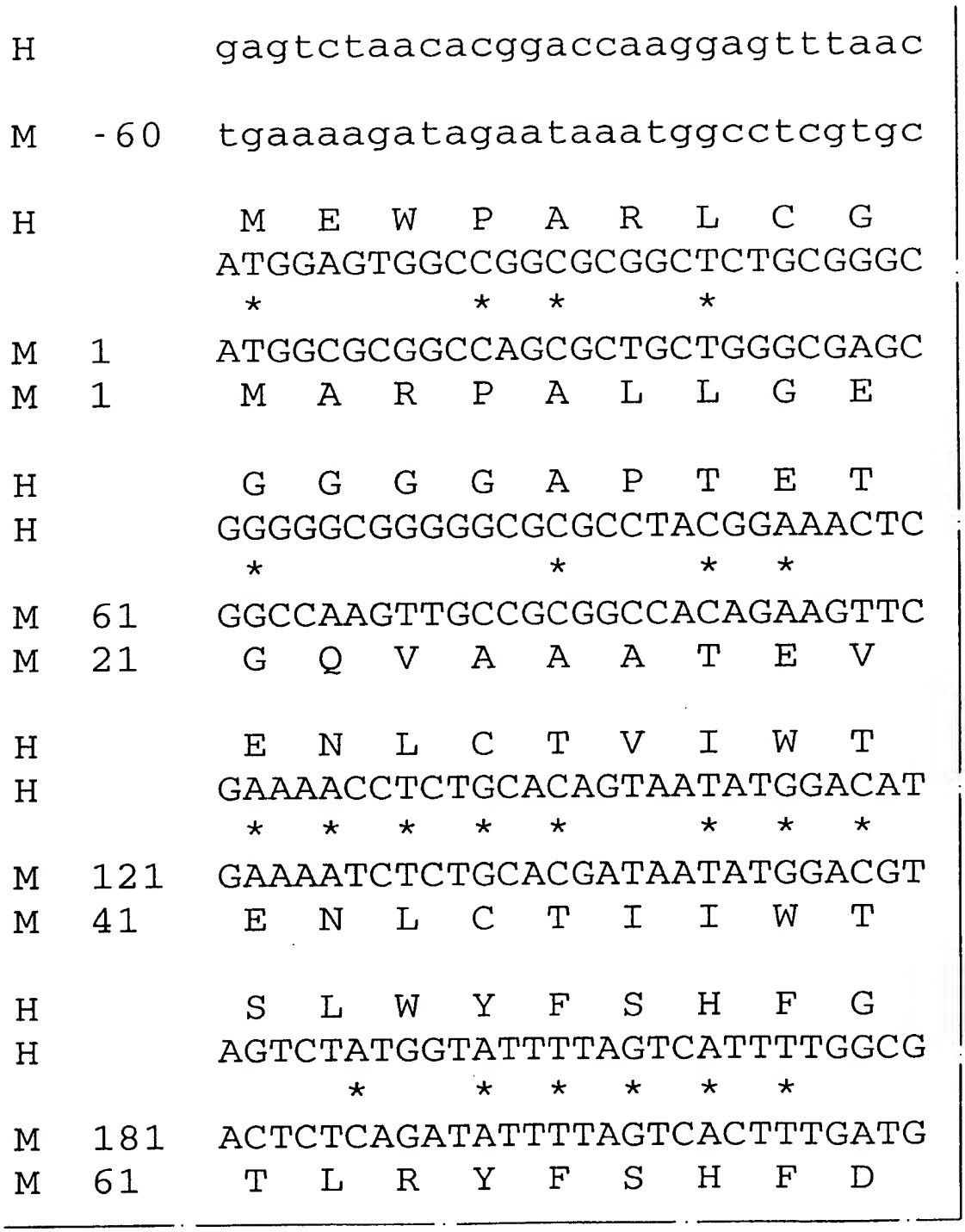

Fig. 7A

```
acgtgcggccgggttccgaggcgagaggctgc
     ....       .......... . ....
cgaattcggcacgagccgaggcgagggcctgc

L  W  A  L  L  L  C  A  G  G  G  G
TGTGGGCGCTGCTGCTCTGCGCCGGCGGCGGGGGC
*        *  *  *
TGTTGGTGCTGCTACTGTGGACCGCCACCGTG---
L  L  V  L  L  L  W  T  A  T  V  -

Q  P  P  V  T  N  L  S  V  S  V
AGCCACCTGTGACAAATTTGAGTGTCTCTGTT
*  *  *  *  *  *  *  *  *  *  *
AGCCACCTGTGACGAATTTGAGCGTCTCTGTC
Q  P  P  V  T  N  L  S  V  S  V

W  N  P  P  E  G  A  S  S  N  C
GGAATCCACCCGAGGGAGCCAGCTCAAATTGT
*     *  *  *  *  *  *     *  *
GGAGTCCTCCTGAAGGAGCCAGTCCAAATTGC
W  S  P  P  E  G  A  S  P  N  C

D  K  Q  D  K  K  I  A  P  E  T
ACAAACAAGATAAGAAAATAGCTCCGGAAACT
*     *  *  *  *  *  *  *  *  *
ACCAACAGGATAAGAAAATTGCTCCAGAAACT
D  Q  Q  D  K  K  I  A  P  E  T
```

Fig. 7B

```
H          R  R  S  I  E  V  P  L  N
H          CGTCGTTCAATAGAAGTACCCCTGAATG
               *        *     *  *
M   241    CATCGTAAAGAGGAATTACCCCTGGATG
M   81      H  R  K  E  E  L  P  L  D

H          S  T  N  E  S  E  K  P  S
H          AGCACCAATGAGAGTGAGAAGCCTAGCA
           *     *  *  *  *  *  *  *
M   301    AGTGCCAATGAAAGTGAGAAGCCTAGCC
M   101     S  A  N  E  S  E  K  P  S

H          G  D  P  E  S  A  V  T  E
H          GGTGATCCTGAGTCTGCTGTGACTGAAC
           *  *  *  *  *  *  *  *  *
M   361    GGTGATCCTGAGTCCGCTGTGACTGAGC
M   121     G  D  P  E  S  A  V  T  E

H          K  C  S  W  L  P  G  R  N
H          AAGTGTTCTTGGCTCCCTGGAAGGAATA
           *  *  *  *  *  *  *  *  *
M   421    AAGTGTTCCTGGCTCCCTGGAAGGAATA
M   141     K  C  S  W  L  P  G  R  N

H          W  H  R  S  L  E  K  I  H
H          TGGCACAGAAGCCTGGAAAAAATTCATC
```

Fig.7C

```
E  R  I  C  L  Q  V  G  S  Q  C
AGAGGATTTGTCTGCAAGTGGGGTCCCAGTGT
*     *  *  *  *  *  *  *  *  *
AGAAAATCTGTCTGCAGGTGGGCTCTCAGTGT
E  K  I  C  L  Q  V  G  S  Q  C

I  L  V  E  K  C  I  S  P  P  E
TTTTGGTTGAAAAATGCATCTCACCCCCAGAA
   *  *  *  *  *  *  *  *  *  *
CTTTGGTGAAAAAGTGCATCTCACCCCCTGAA
P  L  V  K  K  C  I  S  P  P  E

L  Q  C  I  W  H  N  L  S  Y  M
TTCAATGCATTTGGCACAACCTGAGCTACATG
*     *  *  *  *  *  *  *  *  *
TCAAGTGCATTTGGCATAACCTGAGCTATATG
L  K  C  I  W  H  N  L  S  Y  M

T  S  P  D  T  N  Y  T  L  Y  Y
CCAGTCCCGACACTAACTATACTCTCTACTAT
*  *  *  *  *     *  *  *  *  *
CAAGCCCTGACACACACTATACTCTGTACTAT
T  S  P  D  T  H  Y  T  L  Y  Y

Q  C  E  N  I  F  R  E  G  Q  Y
AATGTGAAAACATCTTTAGAGAAGGCCAATAC
```

Fig. 7D

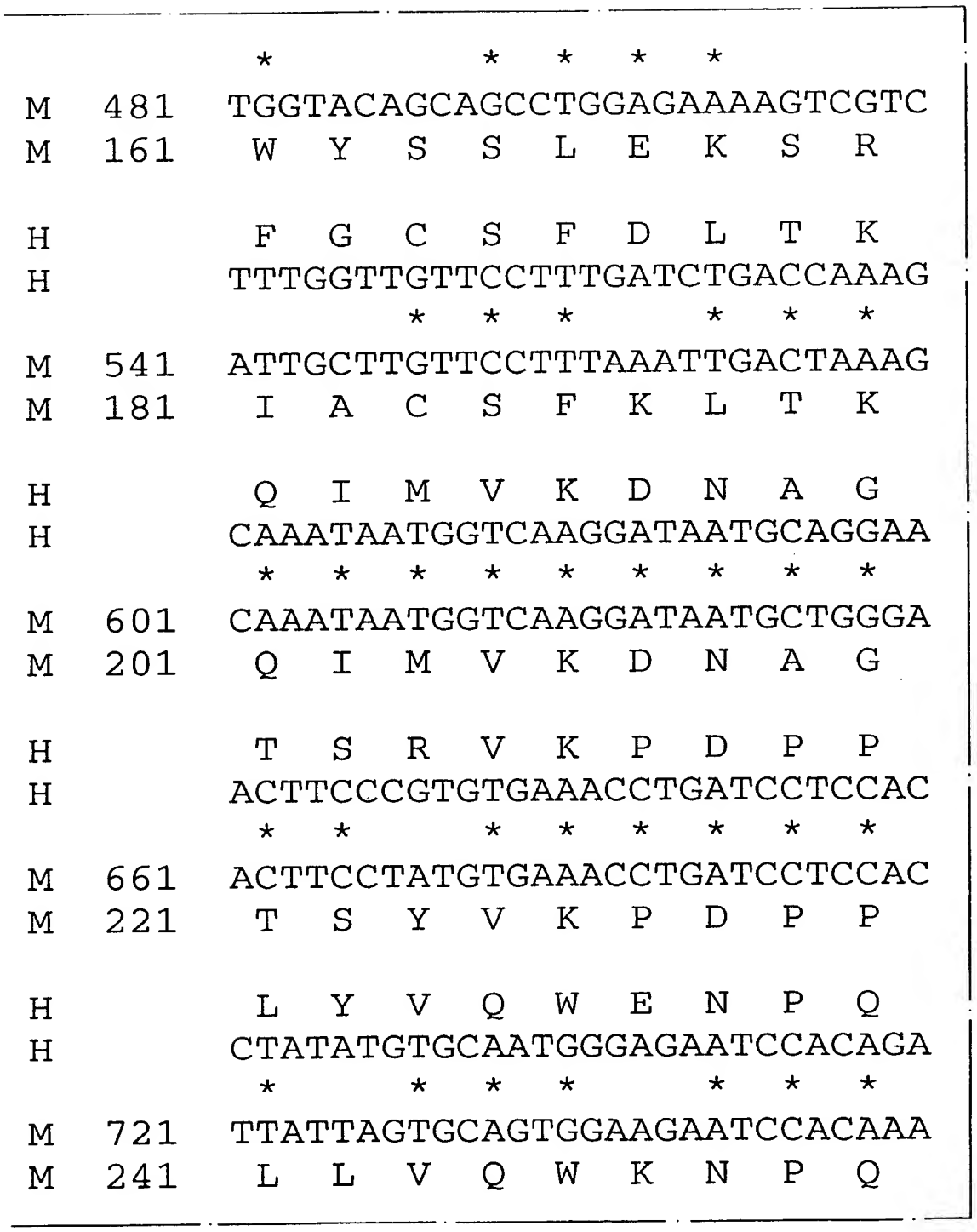

Fig. 7E

```
*   *   *   *   *       *   *   *   *
AATGTGAAAACATCTATAGAGAAGGTCAACAC
Q   C   E   N   I   Y   R   E   G   Q   H

V   K   D   S   S   F   E   Q   H   S   V
TGAAGGATTCCAGTTTTGAACAACACAGTGTC
*               *   *   *               *
TGGAACCT---AGTTTTGAACATCAGAACG TT
V   E   P   -   S   F   E   H   Q   N   V

K   I   K   P   S   F   N   I   V   P   L
AAATTAAACCATCCTTCAATATAGTGCCTTTA
*   *       *   *           *   *       *
AAATTAGGCCATCCTGCAAAATAGTGTCTTTA
K   I   R   P   S   C   K   I   V   S   L

H   I   K   N   L   S   F   H   N   D   D
ATATTAAAAACCTCTCCTTCCACAATGATGAC
*   *   *       *               *
ATATTAAACATCTTCTCCTCAAAAATGGTGCC
H   I   K   H   L   L   L   K   N   G   A

N   F   I   S   R   C   L   F   Y   E   V
ATTTTATTAGCAGATGCCTATTTTATGAAGTA
*   *       *   *   *   *       *   *   *
ATTTTAGAAGCAGATGCTTAACTTATGAAGTG
N   F   R   S   R   C   L   T   Y   E   V
```

Fig. 7F

```
H          E  V  N  N  S  Q  T  E  T
H          GAAGTCAATAACAGCCAAACTGAGACAC
           *  *  *  *     *  *
M   781    GAGGTCAATAATACTCAAACCGACCGAC
M   261    E  V  N  N  T  Q  T  D  R

H          E  N  P  E  F  E  R  N  V
H          GAGAATCCAGAATTTGAGAGAAATGTGG
              *     *        *  *
M   841    CAGAATTCCGAATCTGATAGAAACATGG
M   281    Q  N  S  E  S  D  R  N  M

H          L  P  D  T  L  N  T  V  R
H          CTTCCTGATACTTTGAACACAGTCAGAA
           *     *              *  *  *
M   901    CTTGCCGACGCTGTCTACACAGTCAGAG
M   301    L  A  D  A  V  Y  T  V  R

H          D  D  K  L  W  S  N  W  S
H          GATGACAAACTCTGGAGTAATTGGAGCC
           *     *  *  *  *     *  *
M   961    GACAACAAACTGTGGAGTGATTGGAGTG
M   321    D  N  K  L  W  S  D  W  S

H          T  L  Y  I  T  M  L  L  I
H          ACACTCTACATAACCATGTTACTCATTG
```

Fig. 7G

```
H   N   V   F   Y   V   Q   E   A   K   C
ATAATGTTTTCTACGTCCAAGAGGCTAAATGT
*   *               *       *       *   *
ATAATATTTTAGAGGTTGAAGAGGACAAATGC
H   N   I   L   E   V   E   E   D   K   C

E   N   T   S   C   F   M   V   P   G   V
AGAATACATCTTGTTTCATGGTCCCTGGTGTT
*       *   *   *   *           *   *   *
AGGGTACAAGTTGTTTCCAACTCCCTGGTGTT
E   G   T   S   C   F   Q   L   P   G   V

I   R   V   K   T   N   K   L   C   Y   E
TAAGAGTCAAAACAAATAAGTTATGCTATGAG
    *   *   *   *   *   *   *   *
TAAGAGTCAAAACAAACAAGTTATGCTTTGAT
V   R   V   K   T   N   K   L   C   F   D

Q   E   M   S   I   G   K   K   R   N   S
AAGAAATGAGTATAGGTAAGAAGCGCAATTCC
            *   *   *   *           *   *
AAGCACAGAGTATAGGTAAGGAGCAAAACTCC
E   A   Q   S   I   G   K   E   Q   N   S

V   P   V   I   V   A   G   A   I   I   V
TTCCAGTCATCGTCGCAGGTGCAATCATAGTA
```

Fig. 7H

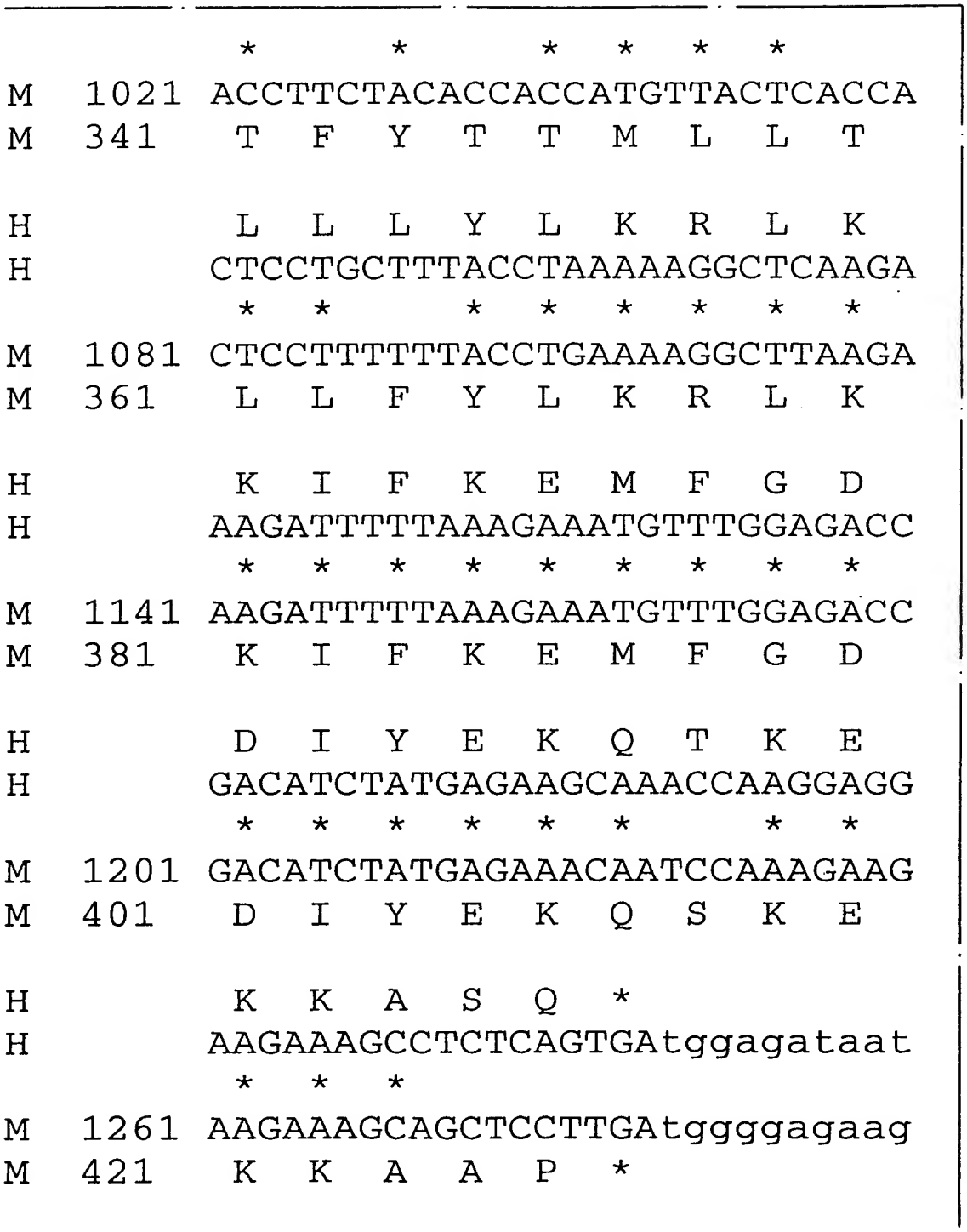

Fig. 7I

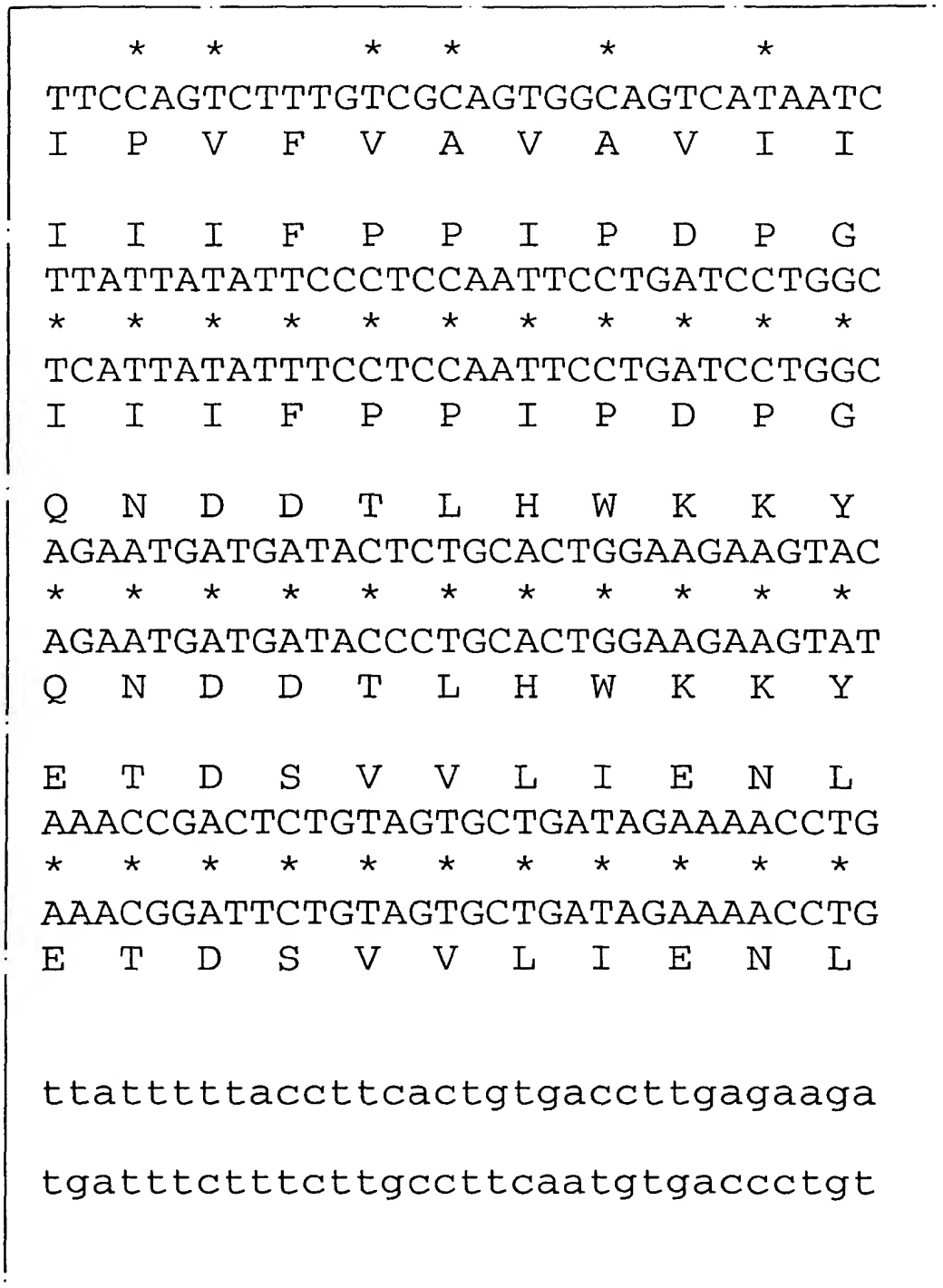

Fig. 7J

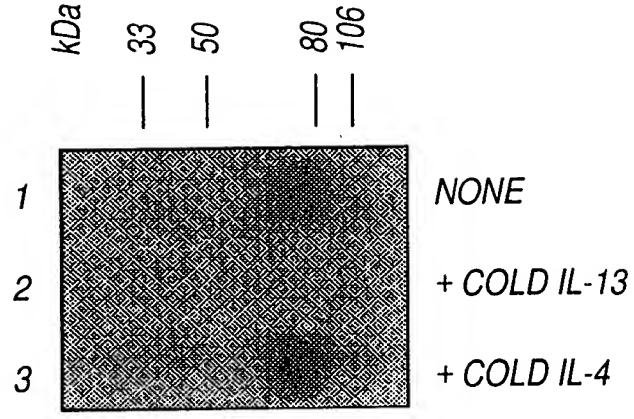

Fig.8

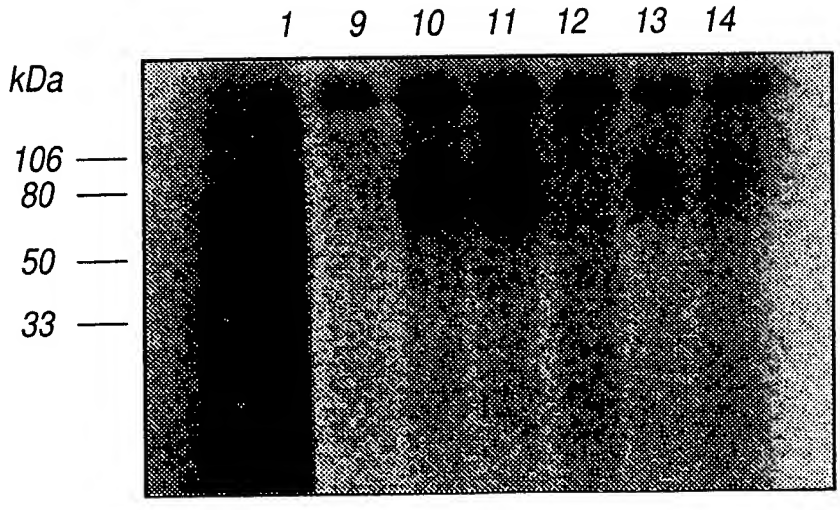

Fig.9